



Report of the

Green Government Coordinating Council

September 2007

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The Illinois Green Government Coordinating Council (the “Council”) is proud to publish this third annual report on the progress of greening government operations in the State of Illinois. Throughout the 2006-2007 fiscal year, the Council continued to guide Illinois state agencies, educational institutions and municipalities in adopting more sustainable ways of delivering services to the people of Illinois.

This report provides an overview of the impressive efforts and successes achieved over the past year with the support and leadership of the Green Government Coordinating Council. The following sections describe accomplishments in four environmental priorities, first established by the Council when it convened in 2005. These four environmental priorities remain the cornerstones of Illinois greening efforts today.

PRIORITY 1: INCREASE GREEN PURCHASING

The Council encourages state agencies to integrate environmental considerations into their procurement decisions. Preferable product features include high recycled content, ability to recycle, ability to biodegrade, non-toxicity, low- or no-vapor emissions (VOCs), incorporation of natural (“bio-based”) ingredients or components, minimal packaging, local production and natural or organic production methods.

PRIORITY 2: REDUCE POLLUTION AND WASTE

The benefits of reducing pollution and waste extend beyond the environment. They also include cost-savings and the health benefits of cleaner air and water. The Council is committed to reducing pollution and waste by supporting programs in areas such as energy efficiency, recycling, reuse, telecommuting and water conservation.

PRIORITY 3: FACILITATE GREEN BUILDING PRACTICES

The Council continues to promote green government building through LEED, a national standard requiring buildings to use the most advanced technologies for energy efficiency, water conservation, sustainable landscaping and green construction materials. The Council encourages state agencies and universities to apply these practices to renovations of existing buildings, in addition to construction of new facilities.

PRIORITY 4: PROMOTE GREEN POLICIES

A key component of the Council’s mission is to educate and inform Illinois citizens about the important benefits of sustainable living. To this end, the Council partners with state agencies and institutions to establish policies and programs that encourage broad participation in environmental initiatives.

PRIORITY 1: INCREASE GREEN PURCHASING

Illinois students are breathing easier in Illinois

Illinois students, faculty members, staff and custodians will soon breathe a little easier during the school day. This August, Illinois passed the Green Cleaning Schools Act, becoming the second state in the nation to enact legislation requiring green cleaning in schools. The act requires all elementary and secondary schools in Illinois to purchase environmentally sensitive cleaning supplies that do not expose students and teachers to irritants and harmful chemicals.

In addition to creating a healthier school environment, natural products may also improve school attendance. The Healthy Schools Campaign estimates that students miss more than 14 million school days each year due to asthma that is exacerbated by poor indoor air quality.

CMS launches comprehensive green products database

In February, the Department of Central Management Services launched its Green Practices database on the CMS Web site. Designed to promote green practices for the work and home, the database includes a directory of over 500 companies distributing environmentally friendly products for commercial and residential use.

The goal of the Green Practices database is to provide a one-stop information port for Illinois designers, builders, owners, businesses and the general public who seek information on the availability of green products, supplies and services.

State facilities using environmentally safe pest management services

The Council is meeting its goal of encouraging state agencies to require pest management contractors working on state facilities to practice integrated pest management which uses safer and often more cost-effective prevention strategies to reduce sources of food, water and shelter for pests.

Numerous state agencies now operate in facilities using integrated pest management, including the Department of Natural Resources, Waste Management and Resource Center, Department of Human Services, Department on Aging, Department of Employment Security, Central Management Services, Department of Children and Family Services and Governors State University.

PRIORITY 2: REDUCE POLLUTION AND WASTE

CMS chooses Illinois company to safely dispose e-waste

The Department of Central Management Services (CMS) is continuing its mission to properly dispose of the electronic waste generated by state agencies. In October, CMS announced that Premier Computers, Inc., of Moline, Ill., is the state's most qualified and responsible bidder to securely wipe confidential data from state computers and safely dispose of old monitors, printers, fax machines, copiers and other electronics.

Once the state's computers are securely wiped and refurbished, the Council works with CMS to donate the computers to Boys and Girls Clubs across Illinois.



State Fair recycling program supports Illinois veterans

This year the State Fair was a little greener. The Green Government Coordinating Council and local partners succeeded in doubling the number of recycling bins located on the fairgrounds.

The Council distributed fliers titled “Going Green Saves and Pays!” to state fair vendors with tips about reducing packaging waste and recycling cardboard, food scraps and frying oil. And the advice seemed to work.

Illinois vendors and fairgoers recycled 3,900 pounds of cans – nearly four times the amount collected during last year’s fair. And at 50 cents a pound, the Illinois environment wasn’t the only cause that benefited. Illinois veterans groups will receive the \$1,950 collected from the recycled cans.

PRIORITY 3: FACILITATE GREEN BUILDING PRACTICES

Green Building Advisory Committee formed

This year the Capital Development Board developed a Green Building Advisory Committee, which establishes green guidelines that are used in determining which state construction projects and major renovations should be developed with green building standards.

The Advisory Committee has also drafted an initial set of guidelines for performance measurements that will be used in measuring up-front costs versus long term energy savings for future state buildings and development projects.

Building green in Illinois

By law, the Capital Development Board is required to identify at least three state construction projects to serve as green building case studies, and CDB is set to far exceed these requirements.

CDB has eleven projects in the planning, design or construction phase that will conform to either the U.S. Green Building Council’s LEED guidelines or to the U.S. Department of Defense’s SPIRIT guidelines for sustainable design.

Green buildings constructed to LEED Silver certification or higher include: the Stratton Building Replacement; WIU Performing Arts Center and Quad City Riverfront Campus; UIUC Lincoln Hall and Harvest Process Center; a Heartland Community College campus building; and a Southern Illinois University campus building.

Leasing green in Illinois

The Department of Central Management Services established the first green lease in the State of Illinois. On November 1 of this year, Illinois’ first green lease will be ready for occupancy on Chicago’s Michigan Avenue.

The leased office features a footprint half the size of the typical downtown Chicago office space based on the number of occupants. CMS has worked with the building owner’s team of designers and construction contractors to reuse materials vacated by the previous tenant such as wood doors and metal frames, specialty doors and glazing, cabinets, countertops and building infrastructure.

More than eight tons of carpet will be recycled with replacement carpet containing 55 percent renewable resource materials by weight, including Illinois soybean-based polymers. From the fields of the heartland to the shore of the Great Lakes, from biofuels to office buildings on Michigan Avenue, Illinois soybeans are helping to build a more sustainable Illinois. That's leadership in good environmental stewardship, good agricultural business and good government.

PRIORITY 4: PROMOTE GREEN POLICIES

Council participates in Chicago's first Green Fest

In April, the Council participated in Chicago's first Green Fest held at McCormick Place. Designed to encourage consumers to realize the impact of their daily routine on the environment, the festival attracted more than 30,000 visitors who enjoyed more than 200 visionary speakers and interacted with hundreds of green businesses from the Great Lakes area during the two-day event.

The Council's booth was filled with fun, enjoyable and environmentally friendly products, such as pencils made from recycled denim, crayons made from soy and coloring books made from recycled paper. The Council also provided fliers highlighting many state environmental programs, such as the Solar Energy Rebate Program, the Illinois Recycling Grants Program, Green Fuel and the Household Hazardous Waste Collection.

The Department of Commerce and Economic Opportunity, Central Management Services and the Environmental Protection Agency sponsored the Council's Green Fest participation.

Twenty-seven schools sign Sustainable University Compact

The Council has asked college and university administrators, planners and students to adopt a green way of thinking, and Illinois institutions of higher learning are stepping up to the task.

This August, the Council hosted the 2nd Annual Illinois Sustainable University Symposium at Illinois State University. More than 200 college administrators, facility managers, funding managers, planners and students from across the State of Illinois gathered in Normal, Ill. to discuss best practices in greening college campuses.

The "Green Living" symposium featured presentations from Saint Xavier University, which recently unveiled a green residence hall; Illinois State University, whose environmentally savvy student body is led by a motivated crew called the Green Team; and the Illinois EPA.

The Annual Sustainable University Symposium built off the successes of its inaugural symposium where Lt. Governor Pat Quinn unveiled the Illinois Sustainable University Compact. There are currently 27 colleges and universities who have signed the compact, which sets out 12 achievable sustainability objectives for Illinois campuses, including purchasing renewable energy, incorporating green building practices in campus construction, developing sustainable transportation options and improving water conservation.



SPOTLIGHT

Saving with energy performance contracting

In 2006, the state's Energy Performance Contracting Pilot Project ended. Over its ten-year term, capital improvements of \$33.4 million were financed through private certificates of participation in seven state facilities. The savings have already exceeded \$4.7 million annually.

Energy performance contracting is an innovative arrangement for designing, installing and financing energy improvement projects. Energy efficiency projects are financed using the utility operating cost-savings realized by the project itself.

The Department of Commerce and Economic Opportunity (DCEO) has continued to monitor project performance over the term of the project agreements. And, building on this initial pilot, DCEO has provided technical assistance to local governments, schools and other organizations helping to save considerable amounts of energy and money using energy performance contracting.

- DCEO has helped implement a total of \$144.6 million in projects with annual utility savings of over \$17.2 million per year.
- Two cities have implemented \$3.3 million in energy performance contracting projects, saving \$347,000 per year. The city of Chicago is set to invest nearly \$45 million, with expected savings of \$7 to \$8 million annually. The County of DuPage has also invested more than \$500,000 that will produce annual savings of over \$74,000.
- Three public housing authorities have entered into energy performance contracting projects producing annual utility savings of \$3.8 million per year. The Chicago Housing Authority also began preliminary work to implement a large-scale energy conservation project involving 6,700 housing units.
- Eleven school districts have installed, or soon will install, more than \$20.1 million in projects that will yield an annual savings of nearly \$1.7 million. Average energy and dollar savings have approached 30 percent.

PRIORITY I: INCREASE GREEN PURCHASING

Purchasing recycled paper and toner cartridges

The Illinois Green Government Coordinating Council is proud to report that most state agencies purchase recycled paper and toner cartridges (see Priority I chart). Many state agencies also report that they return used toner cartridges to the vendor for proper disposal.

The Illinois Department of Revenue increased its use of recycled paper during fiscal year 2007 from 35 to 42 percent. All 450 million lottery tickets for the year were printed on recycled paper, and the department reduced its use of virgin paper by two percent.

Southern Illinois University Edwardsville invests \$200,000 each year in recycled office and paper products, and all janitorial paper products purchased by the university are made from recycled materials. Southern Illinois University's School of Medicine now posts its bid solicitations and award notices in an electronic bulletin, and all SIUE departments are encouraged to purchase refilled laser printer cartridges.

The University of Illinois at Urbana-Champaign Purchasing Division targets and identifies frequently purchased items that can be purchased with recycled content. The Purchasing Division reviewed office supplies, paper products, building materials, lubricants, reprocessed chemicals, remanufactured parts, landscape products and pavement materials.

The Illinois State Board of Education purchases only recycled and refurbished toner cartridges, sending all used cartridges back to the vendor for recycling. And the Department of Healthcare and Family Services reports that in fiscal year 2007, 51.3 percent of all toner cartridges purchased were refurbished cartridges.

Illinois goes soy

Illinois state agencies are consistently using Illinois-grown soybeans for their printing services. Southern Illinois University's School of Medicine, as well as the entire Carbondale campus, require soybean oil-based ink for all of their printing contracts. The Illinois State Board of Education, State Retirement Systems, Illinois State Police and the Office of the Auditor General all use environmentally friendly soybean ink for their printing.



Priority I:

Green Product Purchasing

		Paper & Paper Products	Toner Cartridges	Green Cleaning Supplies	Carpet	Vehicles/Fleet	Fuel	Soy-based Ink	Energy Efficient Electricity
1	Central Management Services					X	X		
2	Department of Agriculture		X						
3	Department of Commerce & Economic Opportunity	X							X
4	Department of Employment Security	X							X
5	Department of Healthcare & Family Services		X				X		
6	Department of Human Rights								X
7	Department of Human Services		X			X			
8	Department of Natural Resources	X				X	X		
9	Department of Public Health	X							
10	Department of Revenue	X	X			X	X		
11	Department of Transportation					X	X		
12	Department on Aging		X						
13	Governor's State University		X	X		X	X		X
14	IDOC - East Moline CC	X	X						
15	IDOC - Illinois River CC	X	X						
16	IDOC - Juvenile Justice	X							
17	IDOC - Menard CC								X
18	Illinois Arts Council		X	X					X
19	Illinois Board of Higher Education		X						
20	Illinois Capital Development Board	X				X	X		
21	Illinois Civil Service Commission		X						
22	Illinois Community College Board		X			X			
23	Illinois Council on Developmental Disabilities	X							
24	Illinois Department of Labor	X	X						
25	Illinois Environmental Protection Agency	X		X	X	X	X		X
26	Illinois Guardianship & Advocacy Commission					X	X		
27	Illinois Housing Development Authority						X		
28	Illinois Racing Board	X							
29	Illinois State Board of Education	X	X	X		X			X
30	Illinois State Police	X	X					X	
31	Illinois Teachers' Retirement System	X							
32	Illinois Tollway					X	X		
33	Illinois Workers' Compensation Commission							X	
34	Joint Committee on Administrative Rules		X						
35	Law Enforcement Training & Standards Board	X	X			X			
36	Liquor Control Commission		X						
37	Northeastern Illinois University			X					X
38	Office of the Auditor General	X		X			X	X	
39	Office of the Lieutenant Governor	X				X	X	X	
40	Property Tax Appeal Board		X						X
41	Southern Illinois University Carbondale (SIUC)	X		X		X		X	
42	Southern Illinois University Edwardsville (SIUE)	X	X				X		
43	Southern Illinois University School of Medicine	X						X	
44	State Employees' Retirement System	X				X	X	X	X
45	University of Illinois at Springfield (UIS)	X							
46	University of Illinois at Urbana-Champaign (UIUC)	X		X		X	X		
47	Waste Management & Research Center					X	X		
48	Western Illinois University (WIU)	X		X		X	X		

SPOTLIGHT

Illinois boasts an award-winning green motor vehicle fleet

The Department of Central Management Services runs the state's award-winning green fleet of more than 12,000 vehicles, providing fleet management services that range from acquiring and maintaining vehicles to buying fuel to run them. With the support and cooperation of state agencies, CMS has acted to meet the following critical goals:

- Increasing fuel efficiency
- Reducing vehicle emissions
- Reducing dependence on fossil fuels
- Enhancing the Illinois economy through the use of renewable, homegrown biofuels

Over the last 15 months, the state's fleet has used more than 125,000 gallons of E-85 fuel. The Illinois fleet has also used more than two million gallons of two percent biodiesel derived from Illinois-grown soybeans.

This spring, the CMS division of vehicles was ranked 16th out of the 100 best fleets nationwide in a competition evaluating performance relating to accountability, collaboration and stewardship of resources. CMS fleet accomplishments include:

- Ranking in the top 20 of Ford Motor Company's Alternative Fueled Public and Private Sector Fleets
- Winning the 2005 Honda Environmental Leadership Award in 2005 awarded by the National Conference of State Fleet Administrators
- Adding 2,000 alternative-fuel E-85 FFVs to the fleet
- Incorporating hybrid vehicles into the fleet
- Providing E-85 and biodiesel for the fleet through a managed-fuel card program
- First-ever measurement of biofuels consumption in fleet
- Working with the state's fleet card services provider to automate biofuels consumption measurement

Purchasing energy efficient equipment

Illinois state agencies aren't only committed to recycled paper, toner cartridges and soy-based ink. Illinois state agencies are also purchasing energy efficient printers, copiers and computers to reduce paper consumption and conserve energy.

The Illinois Arts Council purchases ink-jet printers that use less energy, as well as computer monitors with Sleep Mode, which conserves energy and helps equipment to run cooler and last longer. The Illinois State Board of Education purchases only energy efficient copiers with duplex capabilities to reduce paper consumption, as well as energy saver HP printers and energy efficient computers.

The Illinois State Retirement Systems is leasing copier machines with ENERGY STAR® ratings, and this year the Illinois Environmental Protection Agency purchased 40 computers, five printers and two fax machines, all with ENERGY STAR ratings.

Purchasing alternative fuels and fuel-efficient vehicles

Illinois state agencies are increasingly utilizing the Department of Central Management's state contract to purchase flex-fuel vehicles. This allows state agencies to purchase E-85 and biodiesel made from Illinois corn and soybean products.

The Illinois Environmental Protection Agency purchased 23,962 gallons of E-85 last year, and Southern Illinois University Edwardsville now purchases biodiesel for all University diesel-powered equipment.

The Illinois Department of Healthcare and Family Services purchased 3,219 gallons of E-85 and biodiesel for its flex-fuel vehicles and diesel trucks, making up 19 percent of the department's total fuel purchases for fiscal year 2007. The Department awarded 11 first-time E-85 users with "I Fuel Good" stars and 17 drivers with "100-Gallon Club" stars. Seven drivers received "200-Gallon Club" stars, five were awarded with "300-Gallon Club" stars, four with "400-Gallon Club" stars, and two drivers reached the "500-Gallon Club" milestone.

In April, the Illinois State Toll Highway Authority installed an E-85 fueling system at its Central Administration Headquarters. The Authority now has 77 flexible fuel vehicles capable of operating on E-85. And, in fiscal year 2007, the Illinois Department of Revenue increased its flex-fuel fleet from 30 percent E-85 compatible to 38 percent, or 66 of its 175 vehicles.

GET TO KNOW

The Illinois Department of Transportation's green initiatives

The Illinois Department of Transportation (IDOT) works closely with the Council to green Illinois government operations and to promote the use of biofuels. IDOT pledges that all new purchases of snow and ice removal trucks, dump trucks and other large vehicles will have the ability to use biodiesel. In addition, the used motor oil and antifreeze from IDOT vehicles is recycled, and the department purchases recycled cones and barricades.

IDOT's recycling program does not end there. The department utilizes a sign recycling program that reduces operating costs by reclaiming highway and freeway signs. IDOT recycles about 50,000 signs annually, conserving 427,000 pounds of aluminum annually and saving the state more than \$600,000 a year.

And IDOT also works to protect the air that Illinois citizens breathe near construction zones. The air quality initiatives surrounding the Kingery and Dan Ryan Expressway Reconstruction Projects have been heralded as a national model for an environmental approach to highway projects.

IDOT installed additional equipment to monitor air quality, and an IDOT contractor keeps track of dust quantity. If dust becomes a problem, crews are ordered to spray the area with water. The department keeps air quality cleaner by fitting diesel-powered equipment with emission-control devices and restricts the idling time of diesel equipment.

SPOTLIGHT

Western Illinois University students choose sustainable dining

Western Illinois University students voted overwhelmingly in favor of replacing Styrofoam containers and plastic utensils with biodegradable options. This change is expected to reduce landfilled materials in the WIU waste stream by 510,048 trays, 267,904 cups, 163,968 plastic salad containers and 1,084,160 plastic utensils each year.

During a “Day of Change” event, dining services market tested meal options made with organic and sustainable ingredients, including cage free eggs and produce from local farms. Thanks to the students’ positive responses, dining services will open a new pilot food line in the dining facilities this fall that will feature sustainable food options.

SPOTLIGHT

IDOT launches E-85 station location program

The Illinois Department of Transportation is making it easier for motorists to find gas stations offering E-85 or biodiesel. IDOT learned that drivers were exiting the interstate looking for a biofuels station, only to find that biofuels were unavailable. To alleviate these frustrations, IDOT launched a four-step program to point motorists in the right direction.

Biofuels pamphlet:

This four-page brochure includes a map of Illinois listing all E-85 or biodiesel station locations. The pamphlet was distributed to all Illinois rest areas, the Illinois Department of Tourism and other agencies and associations.

Web page:

A map of all stations that offer E-85 or biodiesel can now be found on IDOT’s www.GettingAroundIllinois.com Web site. IDOT, in cooperation with the Illinois Corn Growers Association, Illinois Soybean Association and the Illinois Environmental Protection Agency, put together the most accurate station listing available.

Blue board signs:

IDOT teamed up with the Illinois Department of Transportation to place large blue signs throughout the Illinois interstate system indicating the availability of E-85 or biodiesel at interstate exits. Arrow signs on Illinois exit ramps also point motorists toward E-85 or biodiesel stations.

Large-format maps:

All rest areas in Illinois now feature large display maps of Illinois (65” tall X 45” wide) indicating station locations that offer E-85 and/or biodiesel.

PRIORITY 2: REDUCE POLLUTION AND WASTE

PAPER

Illinois state agencies are getting creative when it comes to reducing paper consumption (see Priority 2 chart). Reports, newsletters, bills and even student report cards are now available online instead of in a paper-based format, and when printing is necessary, Illinois agencies are utilizing double-sided printing to cut paper usage in half.

Illinois cuts back on paper consumption

The Illinois Arts Council is promoting the use of e-mails wherever possible when responding to grantees' requests, and eventually the Arts Council will move to an electronic grants program. The Illinois Arts Council is also producing an online newsletter and updating all of its mailing lists to minimize unnecessary mailings.

The Office of the Auditor General updated its Web site to include audit reports and other public documents online, which significantly cuts back on paper-based documents.

The Illinois Law Enforcement Training and Standards Board now posts its manuals and training course catalogs online instead of mass mailing to agencies statewide. The Property Tax Appeal Board now provides access to its forms and publications via the Internet.

The Department of Healthcare and Family Services reports that its paper-based claims have dropped significantly since the department started moving toward an electronic format. From January through June of 2007, 2.25 million Internet electronic medical claims were filed, an increase of 38 percent over the same period in 2006.

The Illinois Department of Corrections Hill Correctional Center now purchases its toilet paper in bulk rather than in individually-wrapped rolls. The Correctional Center uses approximately 167,736 rolls of toilet paper each year.

Did You Know?

Electronic tax filling saves paper, time and expenses

The Department of Revenue provides and promotes electronic tax filing and registration. During the 2007 tax filing season, electronic filing increased by 7.1 percent, from 2.54 million filings to 2.72 million filings.

Priority 2:

Reduce Pollution and Waste

		Paper reduction				Energy eff. & cons.					Reuse			Sustainable Transportation	Air quality improvement	Water Conservation	Composting	Waste Clean-Up
		e-communication	2-sided printing & copying	e-form submission & processing	bulk packaging	remote conferencing	power-off electronics	efficient lighting	heating & cooling	automation systems	office & kitchen supplies	electronics & equipment	furniture					
1	Department of Agriculture	X									X							
2	Department of Commerce & Economic Opportunity														X	X		X
3	Department of Employment Security							X	X	X	X	X						
4	Department of Financial & Professional Regulation	X	X	X							X							
5	Department of Healthcare & Family Services			X		X							X					
6	Department of Human Rights														X			
7	Department of Natural Resources	X		X														X
8	Department of Public Health	X	X	X		X	X	X			X		X	X				
9	Department of Revenue	X	X	X														
10	Department of Transportation													X	X			
11	Department on Aging											X	X		X			
12	Governor's State University							X		X		X		X	X	X		
13	IDOC - Hill CC				X				X		X	X						
14	IDOC - Illinois River CC						X											
15	IDOC - Juvenile Justice		X				X	X						X				
16	IDOC - Menard CC						X		X	X					X	X		
17	IDOC - Pontiac CC		X					X			X	X				X		
18	IDOC - Shawnee CC																	X
19	IDOC - Tamms CC							X	X									
20	IDOC - Thomson CC						X		X	X					X	X		
21	Illinois Arts Council	X	X			X	X	X			X			X				
22	Illinois Board of Higher Education	X	X															
23	Illinois Capital Development Board	X		X														
24	Illinois Community College Board						X											
25	Illinois Council on Developmental Disabilities										X							
26	Illinois Department of Labor							X										
27	Illinois Environmental Protection Agency														X			
28	Illinois Guardianship & Advocacy Commission													X				
29	Illinois Housing Development Authority							X		X				X		X		
30	Illinois Medical District Commission																	X
31	Illinois Racing Board										X							
32	Illinois State Board of Education	X				X			X					X	X			
33	Illinois State Police								X			X		X				
34	Illinois Teachers' Retirement System	X							X									
35	Illinois Tollway													X	X			
36	Illinois Workers' Compensation Commission	X		X														
37	Joint Committee on Administrative Rules	X																
38	Law Enforcement Training & Standards Board	X	X											X				
39	Liquor Control Commission	X	X											X				
40	Northeastern Illinois University						X										X	
41	Northern Illinois University													X		X		
42	Office of the Auditor General	X	X					X		X	X							X
43	Office of the Comptroller	X		X				X										
44	Office of the Lieutenant Governor	X	X			X	X				X		X	X		X		
45	Property Tax Appeal Board	X	X	X														
46	Southern Illinois University Carbondale (SIUC)							X	X	X					X	X	X	
47	Southern Illinois University Edwardsville (SIUE)	X		X								X	X					
48	Southern Illinois University School of Medicine									X						X		
49	State Employees' Retirement System	X	X			X		X		X	X					X	X	
50	University of Illinois at Urbana-Champaign (UIUC)																	X
51	Waste Management & Research Center																	X
52	Western Illinois University (WIU)	X		X							X			X			X	

SPOTLIGHT

Illinois Department of Public Health develops electronic filing systems

The Illinois State Cancer Registry requires electronic data submissions from all reporting facilities. About 99 percent of all abstracts sent to the registry are submitted electronically. Cases can be directly included and accessed in an electronic abstract, utilizing a password-protected, web-based reporting system developed by the Centers for Disease Control National Program of Cancer Registries staff.

The State Cancer Registry reporting manual is only available on the ISCR Web site rather than in a paper-based report. All communications regarding upcoming trainings and meetings are posted on the Web site, and all notifications regarding changes in data standards or reporting requirements are distributed utilizing blast e-mail groups.

The Adverse Pregnancy Outcomes Reporting System has also developed an electronic system used by field staff to abstract hospital records directly to a laptop rather than to a paper form. Using the Automated Birth Defect System, all field staff members transmit information electronically to the central office, and it is imported directly into the main database.

Illinois Office of the Comptroller discards paper filing

The Office of the Comptroller continues to promote secure payment processes through the use of paper-free procedures, saving the state an estimated \$1.5 million each year in postage and paper costs from the issuance of electronic payments alone.

Moving from paper-based to electronic processing not only saves the state money, but creates a far more efficient process. Today the Comptroller's office processes more than 6.1 million payments annually – nearly double the number of payments issued in the year prior to Comptroller Dan Hynes taking office.



In 2000, the office's Local Government Department launched the Comptroller Connect Internet Filing, which allows local governments to file their reports directly with the Comptroller's office via the Internet. To date, 4,083 of 5,190 local governments have taken advantage of this technological innovation, eliminating the usage of paper and other resources.

SPOTLIGHT

SIU moves to e-billing and online report cards

Southern Illinois University Edwardsville has developed an e-billing system that eliminates monthly printing and mailing of many paper bills and allows for e-payments, which also reduces the need for paperwork.

SIU Payroll Certification reports are no longer printed and distributed to fiscal officers. Officers now use an online payroll certification process that allows for the review and approval of electronic versions of the certification reports.

And students no longer receive their grades in the mail. The majority of all grade reports for students are posted on the University's self-service portal, CougarNet, where students review their grades electronically. Computer-generated reports are sent to an electronic report distribution server where clients can review them without printing the report, thus reducing the consumption of printing and paper supplies.

ENERGY EFFICIENCY AND CONSERVATION

State agencies are conserving energy through a collective effort to turn off lights while rooms are not in use, installing energy efficient equipment and lighting and using teleconferences and web-based communications to reduce travel time and cost.

State buildings boast energy efficient lighting

From the Illinois Department of Labor to the Office of the Auditor General, state agencies are installing energy efficient lighting and using energy efficient light bulbs - and reaping the benefits.

Installing energy efficient lighting was the "cool" thing to do for Tamms Correctional Center. The facility reports that its new T8 fluorescent lighting lowered indoor building temperatures, reducing natural gas usage – not to mention costs – during the winter months.

But utilizing energy efficient lighting isn't the only thing state agencies are doing to lower energy consumption. The Illinois State Board of Education ensures that its HVAC system is turned off during the weekends and holidays, and the State Retirement Systems, the Office of the Auditor General and the Illinois Housing Development Authority have all installed motion sensors that turn off lights when nobody is in the room.

GET TO KNOW

Energy savings at Juvenile Justice

Juvenile Justice is doing its part to conserve energy. The agency reduced the number of lighting fixtures in its academic building by 50 percent to save on electric usage and replaced incandescent bulbs with compact fluorescent lamps. In addition, Juvenile Justice purchased energy wise computers and photocopying machines that “sleep” after a set time of non-usage.

Using technology to cut back on travel

Illinois state agencies are utilizing videoconferences and online communication in an effort to cut back on business-related travel. This results in cost savings for the state while cutting back on the use of fossil fuels.

The Department of Health and Family Services conducted approximately 237 videoconferences this year, 100 more than during the previous fiscal year. The videoconferences connected 16 sites throughout the state, cutting back on expended fuel and the use of state time to travel to meetings and training.

The Illinois Department of Public Health replaced a manual reabstraction process with an automated process. Manual reabstraction involved traveling to and from reporting hospitals for in-person chart review and collection of case information previously reported on paper. Automated reabstraction uses computer matching of collected data. This process reduced automobile travel as well as paper usage and staff time.

SPOTLIGHT

SIU ups the energy efficiency campus-wide

Southern Illinois University Carbondale is cutting back its energy consumption by converting to fluorescent lighting and installing occupancy sensors in bathrooms across campus. To date, the University has replaced 86,920 T12 lamps with 57,430 T8 lamps in 62 buildings, representing a reduction of 30 percent in lighting demand.

HVAC improvements include the replacement of inefficient boilers with new modulating/condensing hot water boilers and improvements to the campus steam distribution system.

REUSE

Sometimes the little things make a big difference, especially when the entire office team gets together to reduce its impact on the environment by sharing newspapers and magazines, using reusable utensils and gathering around the water cooler instead of grabbing individual bottles.

Illinois agencies enjoy brown-bag lunches

The staff of the Illinois Arts Council has ditched the lunch line, opting to bring their own lunches to work, using plastic containers and reusable utensils instead of disposable plastics. The Arts Council staff is also using travel mugs for morning coffee and sharing newspapers, magazines and phone books to cut down on waste.

The Illinois Council on Developmental Disabilities uses staff-provided non-disposable utensils in its offices, and the Illinois Racing Board has stopped purchasing individual water bottles, moving entirely to water coolers.

Reusing and recycling office supplies and equipment

Many state agencies are making an effort to reuse all office equipment and supplies ranging from desks to paper clips. The Office of the Auditor General and the State Retirement Systems reuse binders and file folders, and the staff at the Illinois Department of Agriculture collects and reuses the paper clips attached to its bank deposit slips.

Illinois Department of Financial and Professional Regulation depends on a supply room supervisor to ensure that folders and paper clips are reused. The department also makes scratch notepads out of outdated forms and letterhead.

The Department on Aging and the Illinois Department of Public Health send all unused equipment and furniture to the state surplus warehouse for other agencies to utilize, and the Illinois State Police provides previously used bullet proof vests to local law enforcement officers.

Southern Illinois University Edwardsville not only reuses an average of one semi-truckload per month of old office equipment, the university also uses its central receiving route drivers to pick up the surplus equipment and furniture on their daily runs. This cuts out an extra delivery trip for the facilities management team, which previously picked up and delivered the excess equipment to the Illinois Central Management Services offices in Springfield.

Did You Know?

SIUE gives the gift of knowledge

Southern Illinois University Edwardsville teamed up with the Department of Central Management Services to donate 76 computers to the East St. Louis students of the Mulberry Groves School District.

SPOTLIGHT

Hill Correctional Center chucks Styrofoam

Illinois Department of Corrections Hill Correctional Center last year swapped Styrofoam cups for re-usable plastic cups. This move cut down the use of Styrofoam cups dramatically. Before the changeover, the correctional facility threw out about 1.5 million cups each year. Last year, the center through out just 624,000 Styrofoam cups.

Reducing Styrofoam cup usage had the added effect of reducing the amount of garbage bags used to throw the cups away. Prior to the conversion to plastic cups, the center used 291,000 plastic garbage bags per year. Last year just 166,400 plastic garbage bags were thrown out.

SUSTAINABLE TRANSPORTATION

Whether carpooling, driving flex-fuel vehicles or reducing the amount of time spent on the road, employees of Illinois state agencies are thinking outside of the box when it comes to sustainable transportation.



State employees get out of the car

The staff of the Illinois Arts Council ride bikes, walk and hop on public transportation to get to work, and the Illinois Department of Public Health staff carpool to training sessions, site visits and other work-related activities.

The Illinois Liquor Control Commission and the Illinois Law Enforcement Training and Standards Board ask employees to carpool to work, and the Guardianship and Advocacy Commission uses flextime to reduce commute trips and congestion.

The Department of Juvenile Justice reduced its number of on-ground security vehicles, encouraging staff to walk around its facility, and the Illinois State Board of Education as well as Northern Illinois University use flex-fuel vehicles to transport employees.

SPOTLIGHT

Illinois State Toll Highway Authority creates bike trails

The Illinois State Toll Highway Authority may be charged with the maintenance and construction of toll roads, but the Authority is making quite a positive impact on bike trails, too.

As part of its I-355 South Extension project, the Authority is constructing a 1.3-mile, six-lane bridge over the Des Plaines River Valley. In order to get construction equipment across the river, workers constructed a low-level access bridge stretching across the Des Plaines. Once the project is complete, the Tollway will turn over the bridge to the Forest Preserve District of Will County for use as a bike trail.

Wadsworth Road Bridge located in Lake County used to carry traffic over the Tollway via a two-lane, two-way road until the Illinois State Toll Highway reconstructed the bridge. Now the bridge boasts a ten-foot wide path for bicycle and pedestrian use, which is separated from the road with a barrier wall.

Illinois State Toll Highway Authority is currently widening and reconstructing the East-West Tollway in DuPage County, and, while they're at it, the Tollway is making enhancements to the DuPage River Trail. Conditions on the trail will be vastly improved by the removal of invasive vegetation along the trail and under the overpass, as well as the inclusion of abutment facade to improve the overall aesthetics and rider experience.

RECYCLING

Illinois agencies made impressive strides in expanding both the volume and breadth of their recycling programs this year (see Recycling chart).

Recycling efforts extend far beyond white paper

Recycling paper means more than just white printer paper, copier paper and fax paper. The Illinois Arts Council recycles colored paper, file folders, inter-office envelopes and manila folders. The Joint Commission on Administrative Rules adds newspapers and phone books to this list of recyclables. Beyond paper products, the Commission also recycles batteries and compact fluorescent light bulbs. The Illinois State Board of Education takes advantage of the CMS electronics recycling program for computers, monitors, fax machines, copiers and printers.

Tamms Correctional Center teams up with IDOT to recycle

The Tamms Correctional Center participates in the program at their local IDOT garage to recycle all used motor oils, antifreeze, batteries and tires. Tamms also collects and recycles a wide range of commodities from their facility, including paper, cardboard, plastic containers and aluminum containers. Over the past year, Tamms has recycled more than 15 tons of paper, cardboard, plastic and aluminum.

Priority 2:

Reduce Pollution and Waste - Recycling

		paper & paper products	cardboard	plastic	metal	glass	toner cartridges	batteries	motor oil	tires	computers & electronics	furniture	construction materials
1	Central Management Services	X	X	X	X	X					X		
2	Department of Agriculture			X	X	X							
3	Department of Commerce & Economic Opportunity			X	X	X					X		
4	Department of Financial & Professional Regulation	X	X				X						
5	Department of Healthcare & Family Services	X											
6	Department of Human Services	X											
7	Department of Natural Resources	X	X	X	X		X		X				
8	Department of Public Health	X					X						
9	Department of Revenue	X		X	X								
10	Department of Transportation				X								
11	Department on Aging	X	X		X								
12	Governor's State University		X	X	X	X		X	X	X			
13	IDOC - Illinois River CC	X	X				X		X				
14	IDOC - Juvenile Justice						X						
15	IDOC - Lawrence CC		X										
16	IDOC - Pontiac CC	X	X		X			X	X				
17	IDOC - Tamms CC	X	X	X	X			X	X	X			
18	Illinois Arts Council	X	X				X				X	X	
19	Illinois Board of Higher Education	X	X		X		X						
20	Illinois Capital Development Board	X	X										X
21	Illinois Civil Service Commission	X			X								
22	Illinois Community College Board	X			X		X						
23	Illinois Council on Developmental Disabilities				X								
24	Illinois Criminal Justice Information Authority	X											
25	Illinois Department of Labor										X		
26	Illinois Environmental Protection Agency	X		X	X		X	X					
27	Illinois Gaming Board	X	X										
28	Illinois Housing Development Authority	X											
29	Illinois Medical District Commission	X		X	X	X							
30	Illinois Racing Board	X	X										
31	Illinois State Board of Education	X		X	X						X		
32	Illinois State Police	X	X										
33	Illinois State University	X	X	X	X	X	X	X			X		
34	Illinois Teachers' Retirement System	X			X								
35	Illinois Tollway									X			X
36	Illinois Workers' Compensation Commission	X											
37	Joint Committee on Administrative Rules	X	X		X			X			X		
38	Law Enforcement Training & Standards Board	X											
39	Liquor Control Commission	X											
40	Northeastern Illinois University	X	X										
41	Northern Illinois University	X	X	X	X	X	X	X					
42	Office of the Auditor General	X	X		X		X						
43	Office of the Comptroller	X					X						
44	Office of the Lieutenant Governor	X		X	X	X	X	X					
45	Property Tax Appeal Board	X		X	X	X	X						
46	Southern Illinois University Carbondale (SIUC)	X	X	X	X		X						X
47	Southern Illinois University Edwardsville (SIUE)	X	X	X	X	X							X
48	Southern Illinois University School of Medicine	X	X		X								
49	State Employees' Retirement System	X	X				X						
50	University of Illinois at Chicago (UIC)	X	X	X	X	X	X	X	X		X		X
51	University of Illinois at Springfield (UIS)	X		X	X								
52	University of Illinois at Urbana-Champaign (UIUC)	X	X	X	X	X	X	X	X	X	X		X
53	Western Illinois University (WIU)	X	X	X	X	X					X		X

Doctors and future doctors take recycling to heart

The Southern Illinois University School of Medicine Campus at Springfield has recycled office paper, cardboard and aluminum cans for more than a decade. This past fiscal year, the school recycled more than 8.3 tons of cardboard, 31.9 tons of office paper and 172 pounds of aluminum cans. Whenever possible, faculty, staff and students recycle unused laboratory chemicals. Without this recycling effort, these often dangerous and toxic materials would end up in the waste stream.

Illinois' university campuses are hotbeds for recycling

Illinois State University collects and recycles 22 commodities from virtually every campus building, resulting in over 1,500 tons of recycled materials each year. Through its strong recycling program and the assistance of the Northside Learning Center, Northeastern

Illinois University recycled over 88 tons of paper and cardboard in the past year. SIUE's Central Receiving Department began recycling shipping pallets, recycling nearly 150 units this past year.

DCEO gives grants to expand recycling

The Department of Commerce and Economic Opportunity (DCEO) offers recycling grants under two programs: the Recycling Expansion

and Modernization (REM) program and the Illinois Recycling Grants Program (IRGP). REM funds projects that help Illinois businesses reduce waste or use recycled materials in their production processes, while IRGP focuses on projects that facilitate the cost-effective collection and processing of traditional recyclable commodities such as plastic, glass, fiber, metal, yard waste and – more recently – electronics.

Grants are prioritized for projects with a high potential for diverting waste from landfills and providing public economic benefits, such as job retention and creation. All entities – including

private businesses, local governments and not-for-profit organizations – are eligible to apply for funding. The IRGP requires its grantees to print promotion/educational material (e.g., brochures) on recycled content paper.

Tons of recycling at the University of Illinois

The Waste Transfer Station at UIUC recycles or diverts 50 percent of University waste. During fiscal year

2007, the Waste Transfer Station recycled 1,932 tons of paper and cardboard, 38 tons of aluminum cans, 623 tons of iron, 38 tons of plastic, 1,300 tons of landscape waste and 325 tons of pallets. In addition, the University's Garage and Carpool recycled 556 tires and 4,190 gallons of used motor oil. What else makes up that 50 percent of recycled waste? Fluorescent lamps, carpeting, scrap metal, batteries, cell phones, toner cartridges, computers and CDs.

GET TO KNOW

RecycleMania

For the first time this year, Illinois State University (ISU) participated in a national recycling competition entitled *RecycleMania*.

This friendly competition engaged over 200 universities in projects across several environmental categories. ISU finished in the middle of the pack and learned how to better position itself in future *RecycleMania* competitions. For more information on how your university can participate, visit www.recyclemaniacs.org.

Facts and figures on Illinois state agencies' recycling efforts

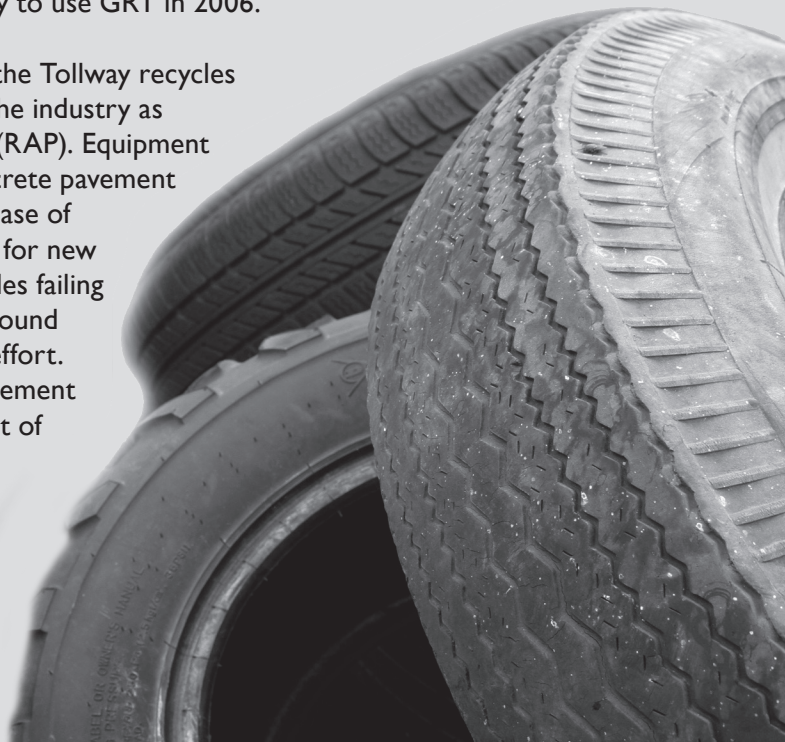
- The CMS Electronics Recycling program went online in mid-April, 2007. Since then, CMS has successfully recycled 3,881 broken computers, monitors, printers, fax machines, copiers and other scrap electronics. During this time, more than 42,600 pounds of electronic waste and hazardous chemicals were kept out of Illinois landfills.
- The Office of the Comptroller provides 100 percent of employee desks and workstations with paper recycling bins.
- The Lawrence Correctional Center started a cardboard recycling program in December 2006, reducing the waste stream by 53 tons and saving \$3,745 in waste hauling cost during a six-month period.
- The Department of Human Services shredded and recycled approximately 22,683 boxes of paper, equaling about 793,905 pounds.
- Healthcare and Family Services staff collected and recycled 10 pallets of old telephone books.

SPOTLIGHT

Where the rubber meets the road

This year, the Illinois State Toll Highway Authority completed a study and demonstration of using ground rubber tire (GRT) in asphalt pavement. The study took place on the South Tri-State, I-294. GRT material is recycled from auto and small truck tires. Mixing it into asphalt allows recycling of up to 2,000 tires per lane mile of highway and is anticipated to improve pavement performance, particularly noise reduction. IDOT, the University of Illinois and the Tollway received positive results from the demonstration project and are evaluating ways to include this pavement option for future projects. The Illinois Tollway was the first transportation agency to use GRT in 2006.

In addition to recycling tires, the Tollway recycles asphalt – a material known in the industry as Reclaimed Asphalt Pavement (RAP). Equipment breaks failing asphalt and concrete pavement into small pieces to create a base of crushed, high-quality material for new pavement. This process recycles failing pavement into a structurally sound pavement base with minimal effort. It significantly reduces old pavement waste and reduces the amount of imported material required in rebuilding the new pavement.



GET TO KNOW

The wise recycling truck at SIUC

Southern Illinois University Carbondale provides recycling for all products that can be salvaged locally by providing compartment-style recycling bins throughout housing units and along outdoor pathways. The recycling program uses a semi-automated recycling truck, which prominently displays the SIUC recycling logo and the slogan “It’s not waste until you waste it!” The truck removes pre-sorted paper materials from all campus offices and departments. A separate recycling program accepts construction byproducts, toner cartridges, overhead film products, aluminum and steel containers from dining facilities.

SPOTLIGHT

CMS reduces toxic waste by recycling government electronics

The Department of Central Management Services (CMS) developed the first statewide government electronics recycling program designed to ensure the environmentally friendly disposition of state-owned electronics. Under the new CMS recycling program, when the state’s electronics and technology are too old, broken, outdated or have exceeded their useful life, they can now be transferred to the state’s vendor for proper disposal. The vendor recycles glass, plastics and metals and responsibly disposes of chemical components.

In fiscal year 2007, CMS successfully recycled 3,881 broken computers, monitors, printers, fax machines, copiers and other scrap electronics submitted to the state warehouse by dozens of agencies, boards, commissions and universities. As a result, more than 42,600 pounds of electronic waste and hazardous chemicals – more than 21 tons of material – were kept out of Illinois landfills.



AIR QUALITY

The Illinois Green Government Coordinating Council is proud to report that a few state agencies are going the extra mile to help their employees breathe cleaner air. The Illinois State Board of Education uses only non-toxic paint on the walls of its Springfield office, the Illinois Environmental Protection Agency uses only low-emitting adhesives to improve the indoor air quality of its offices, and the Department of Human Rights encourages its employees to bring plants to work.

Department on Aging seeks out healthier place to work

When the basement building of the Illinois Department on Aging flooded during the summer of 2006, the agency took the opportunity during the clean-up effort to test the indoor air quality of the building. The agency is now in the process of locating new office space where the air quality will be safer for department employees to breathe.

Tollway launches awareness campaign to reduce congestion

The Illinois State Toll Highway Authority knows that the best way to reduce construction-related congestion is to inform motorists of other viable commute options. That's why the Tollway plans to use a \$100,000 grant from the Chicago Metropolitan Agency for Planning to conduct an outreach program to inform drivers about the reconstruction project along the 39-mile North Tri-State corridor that stretches across Lake and Cook counties.

The Tollway will work with public transportation providers to contact major businesses in the affected area, alerting employees about the construction schedule and advising alternative routes. An effective outreach program will promote ride-sharing, flexible work schedules and alternative truck delivery schedules, therefore reducing vehicle idling and improving regional air quality.

WATER CONSERVATION AND WATER QUALITY

State agencies are conserving water by using new and innovative technology. The State Retirement Systems now uses electronic flush valves, which has cut back on water and energy usage while reducing costs. The Illinois Housing Development Authority is also enjoying the benefits of toilets that consume less water, and Northern Illinois University installed hands-free, low-flow fixtures in its bathrooms.

COMPOSTING

SIUC leads the way with worms

Southern Illinois University Carbondale estimates that 2,000 pounds of post-consumer food waste is collected from its campus dining halls each day. The waste is taken to the vermicomposting facility where worms process it into a nutrient-rich soil additive. The facility is heated by a Clean Burn furnace, which is fueled with used motor oil.

WASTE CLEAN-UP

Operation Pride leads to the collection of nearly 130 tons of garbage

For 10 years, offenders and staff from the Harding County Work Camp and the Dixon Springs Impact Incarceration Center have teamed up to collect trash on rural highways in Southeast Illinois.

This year the participants of Operation Pride collected 11 tons of trash – 3,258 bags full – along 169 miles of highway in Saline, Pope, Harding and Gallatin counties. Enough aluminum cans were collected to earn \$713, which was donated to the local United Way.

Over the 10-year span of the program, Operation Pride has collected 127 tons of trash, equal to 29,513 bags of garbage. In addition, a total of \$10,038.17 of recyclable aluminum cans have been collected, with all proceeds donated to local charitable endeavors.

The Auditor General adopts a street

Staff from the Office of the Auditor General can be found on various Saturday mornings picking up trash along Ash Street between Macarthur and Martin Luther King Drive. The office took responsibility for the roadway three years ago through the Adopt-A-Street program and schedules four clean-up events every year.

Medical District and UIUC launch beautification campaigns

The Illinois Medical District Commission is partnering with Chicago Gateway Green and Cleanslate to create a “green belt” through its district, landscape parts of the Eisenhower Expressway and provide recycling services within the neighborhood.

The Facilities and Services department at the University of Illinois at Urbana-Champaign coordinates a variety of environmental awareness campaigns designed to cultivate environmental stewardship within the student community. The campus hosts at least two clean-up events each year, providing an opportunity for hundreds of campus and community volunteers to restore the beauty of the Urbana-Champaign campus by picking up trash and applying “No Dumping” labels to the storm drains.

PRIORITY 3: FACILITATE GREEN BUILDING PRACTICES

ALTERNATIVE ENERGY

From biofuels to wind turbines to solar panels, Illinois state agencies are leading the alternative energy charge (see Priority 3 chart).

The Illinois Finance Authority funds biodiesel

The state's largest biodiesel plant, located in Danville, supports both energy independence and Illinois agriculture – producing 45 million gallons of biodiesel per year. The Illinois Finance Authority (IFA) provided \$15 million in project financing to support this project and the development of biodiesel in Illinois

Priority 3: Facilitate Green Building Practices		Alternative Energy	Energy Efficiency	Native Landscaping	Green Building Resources	Ecological Preservation and
1	Central Management Services	X	X		X	
2	Department of Commerce & Economic Opportunity		X		X	
3	Department of Employment Security		X		X	
4	Department of Financial & Professional Regulation		X		X	
5	Department of Healthcare & Family Services				X	
6	Department of Human Services		X			
7	Department of Natural Resources		X			
8	Department of Transportation		X	X		
9	Illinois Capital Development Board		X		X	
10	Illinois Finance Authority	X				
11	Illinois Historic Preservation Agency				X	
12	Illinois Housing Development Authority		X			
13	Illinois Medical District Commission			X		
14	Illinois State Police		X			
15	Illinois State University (ISU)				X	
16	Illinois Tollway		X			X
17	Northeastern Illinois University				X	
18	Northern Illinois University	X	X			
19	Office of the Comptroller		X			
20	Southern Illinois University Carbondale (SIUC)		X			
21	Southern Illinois University Edwardsville (SIUE)			X		
22	University of Illinois at Chicago (UIC)	X	X		X	
23	University of Illinois at Springfield (UIS)	X	X		X	
24	University of Illinois at Urbana-Champaign (UIUC)	X	X	X	X	
25	Waste Management & Research Center		X			
26	Western Illinois University (WIU)	X	X		X	

Illinois channels the wind

The Illinois Finance Authority boasts a new four-turbine, 10-megawatt wind energy project that is providing energy for 3,000 Illinois homes, and the University of Illinois has plans for a wind turbine project that will utilize three turbines to supply about three percent of campus electricity – making it one of the first university-owned wind farms in the nation.

Northern Illinois University uses a solar collector to heat its two indoor swimming pools, and the University of Illinois has teamed up with the University of California at Berkeley to explore alternative fuel sources such as corn crop residues, switchgrass and *Miscanthus*.

SPOTLIGHT

Energy efficient affordable housing

The Illinois Housing Development Authority now provides incentives for developers of affordable rental housing to design with energy efficiency in mind. The Qualified Allocation Plan funds approximately 1,400 units per year and has helped to develop several new affordable-housing developments constructed using geothermal power, energy efficient appliances, lighting and building materials. Residents of these new energy efficient developments are enjoying significantly lower utility bills.

ENERGY EFFICIENCY

Illinois state agencies across the board are doing whatever it takes to make everyday office operations more energy efficient. Some agencies such as the Illinois State Police and the Illinois Housing Development Authority have simply relocated from older less-efficient office buildings to more modern, energy efficient facilities. Others are renovating their office spaces to be more energy efficient and enjoying tremendous cost-savings in the long run.

Renovating old buildings to be newly efficient

The Office of the Comptroller recently remodeled the exterior of its building and designated 20 percent of the exterior area for greenery. The Department of Human Services recently finished its renovation project and is enjoying significant savings as a result. The department reduced its energy usage by 1,010,218 kilowatt hours, a savings of \$46,958.

The Illinois State Toll Highway Authority installed a state-of-the-art HVAC control system for 28 of its toll plazas. The new cooling systems are reducing energy usage and enhancing occupant productivity while minimizing environmental impact.

University campuses focus on efficiency

Northern Illinois University is replacing campus windows and doors and fitting them with UV-filtered and insulated glass. The university is also using heat-reflective roofing materials to keep buildings cooler in the summer, thereby reducing energy consumed by air conditioning units.

SPOTLIGHT

Menard Correctional Center conserves valuable resources

The Menard Correctional Center has completed a series of renovations that are considerably reducing the amount of energy consumed by the facility.

The Center's exterior lights used to remain on during daylight hours. Now new photocells are ensuring that lights are on only when necessary, significantly reducing the Center's electricity usage.

The Center also installed new stainless steel toilets equipped with electronic flush valves. The old cell fixtures allowed for water to run continuously in the sink or toilet, creating a burden on the facility's utility budget as well as a security concern. The new electronic valves now allow the center to control the amount of time between flushes as well as the amount of time water flows from faucets.

Shower heads at the Menard Correctional Center used to run continuously as inmates moved from their cells to the showers, but the Center's new shower facilities are equipped with electronically controlled shower heads that run for a preset amount of time and automatically shut off when time has expired.

The University of Illinois at Urbana-Champaign recently completed an upgrade of its cooling system, including the construction of an all-new regional plant on South Oak Street. The benefits of lower energy demand has reduced cooling-related energy consumption by more than 20 percent.

Southern Illinois University Carbondale is implementing a comprehensive energy-efficiency upgrade of all campus facilities and designing a new Transportation Education Center with the expectation that this project will yield the first LEED-certified building on campus.

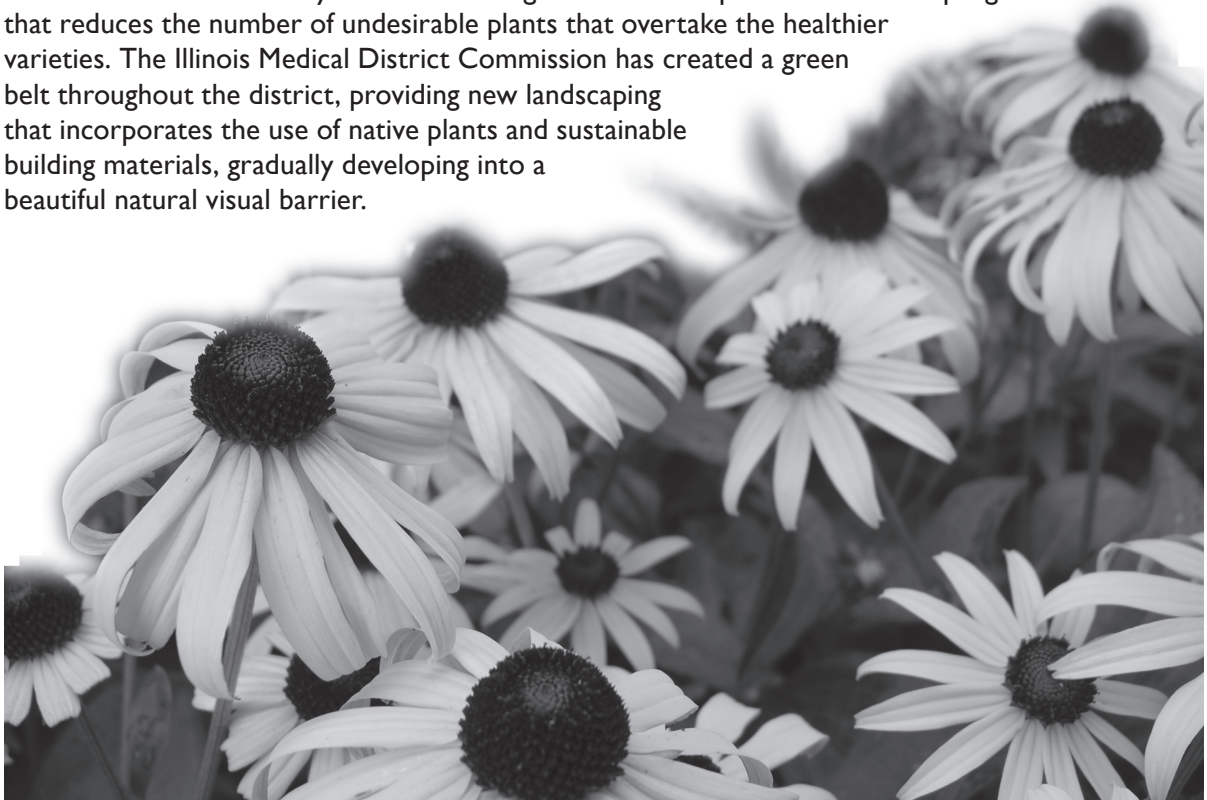
UIC taps the earth for heat but keeps the roof cool

The University of Illinois at Chicago recently completed a renovation of Grant Hall, which included the installation of energy efficient heating and cooling systems operated by geothermal heat pumps. In addition, the university is now using soy-based emulsion roof coating that reduces the amount of energy absorbed from intense sunlight, in turn keeping the building much cooler.

NATIVE LANDSCAPING

State agencies lead the movement to plant native species

Southern Illinois University Edwardsville began an invasive species eradication program that reduces the number of undesirable plants that overtake the healthier varieties. The Illinois Medical District Commission has created a green belt throughout the district, providing new landscaping that incorporates the use of native plants and sustainable building materials, gradually developing into a beautiful natural visual barrier.



GET TO KNOW

Native landscaping at the University of Illinois

The University of Illinois system has a new focus for campus landscaping: native species. Schools are planting only low-maintenance, drought-tolerant and predominately native species. This has eliminated the need to install irrigation systems in newly developed planting areas, saving the university thousands of dollars in irrigation installation costs as well as conserving water.

GREEN BUILDING

SIUE pledges to build green – and keeps its word

Southern Illinois University Edwardsville is implementing building design guidelines that call for all new buildings to be designed to achieve LEED certification, and the campus architect and facilities director are taking this pledge seriously, attending training sessions to help ensure new buildings meet the highest standards of sustainability.

Healthcare and Family Services has new green office space

The Department of Healthcare and Family Services recently moved into a new environmentally friendly building in Marion. Carpeting in the building contains post-consumer recycled content, and the walls are painted with zero- or low-VOC latex paint and primer.

The energy efficient window coverings keep the building cooler in the summer and warmer in the winter, and all faucets are self-closing with flow restrictors. There are electric hand dryers and programmable thermostats throughout the building, fluorescent – rather than incandescent – exit signs, motion-activated lighting sensors and a videoconference room to reduce travel to meetings.

Historic Preservation Agency renovates Lincoln's Tomb for bicentennial

The Illinois Historic Preservation Agency is getting ready for the 2009 Lincoln Bicentennial. The Preservation is in the design phase of a project to replace the current HVAC systems at Lincoln's Tomb with a new geothermal system. The proposed benefits are expected to greatly improve the interior air conditioning, creating an energy efficient HVAC system and relieving the site of a long-term eyesore.

The Preservation is also partnering with the Illinois Department of Transportation to design a new walkway and parking lot for the site. The project will utilize a soil solidifier for the paving material and will incorporate this low-tech, low-maintenance material as a means to further define and enhance the national landmark.

SPOTLIGHT

Getting down to the business of greening

The University of Illinois is constructing a Business Instructional Facility with the goal of achieving LEED Gold certification. The facility is expected to consume as much as 75 percent less energy than average consumption in older campus buildings. The green facility combines environmental design principles with innovative, high-performance building systems.

Important design elements include: high indoor air quality ventilation provided by air volume displacement carbon dioxide sensors; three inches of insulation and triple-pane windows; a solar photovoltaic array on the auditorium roof, expected to produce five to seven percent of the building's electrical energy requirements; high-quality construction materials and finishes produced with low-embodied energy; native and drought-resistant landscaping; bioswales to control storm water runoff; intensive and extensive vegetated (green) roofs; and low-flush urinals and raw water toilet flushing.

GREEN BUILDING RESOURCES

Green building training workshops

The Capital Development Board, along with AIA-Illinois, the American Council of Engineering Companies and the Illinois Society of Professional Engineers, co-hosted nine free training workshops throughout Illinois to increase awareness and understanding of green building techniques.

The well-attended training workshops were held in Chicago, Rockford, Bloomington, Belleville, Carbondale, Champaign, Glenview and Springfield.

During the training sessions, state employees and experts from the private sector involved in the design, construction and management of buildings provided an overview of the United States Green Building Council's LEED rating system.

These training workshops were designed to:

- Clearly define green sustainability principles and practices.
- Illuminate and explain major sections of the LEED rating system.
- Raise awareness and encourage the use of green design and construction principles among the general public, the design and construction industries and parties interested in using sustainable practices.
- Explore the potential of a state rating system to track green buildings that are completed, regardless of which measurement system is used.
- Expand the understanding of where CDB stands on green design and construction.

DID YOU KNOW?

“LEED” the way to sustainability

LEED stands for “Leadership in Energy and Environmental Design.” Developed by the U.S. Green Building Council, LEED is a voluntary program that sets performance standards for the design and construction of green structures. The LEED program also certifies and rates buildings based on energy efficiency and other green principles.

ECOLOGICAL PRESERVATION AND RESTORATION

Illinois Tollway works to protect, preserve and restore

The Illinois State Toll Highway Authority is making significant efforts to mitigate its environmental impact in reconstruction zones. The Tollway has planted 2,747 trees along Illinois roadways and is engaged in a number of projects to protect endangered species and forest preserves.

Endangered grass found while widening I-94

The Tollway is implementing a plan to relocate Bog Arrow Grass found while widening and reconstructing portions of I-94. A population of approximately 500 flowering stems of the Bog Arrow Grass, which is listed on the state's endangered species list, were located in a vegetated swale along the west side of the Tollway. The stems have been relocated to Montrose Beach, Rainbow Beach and Osterman Beach in Chicago.

Team effort maintains nature preserves along I-294 construction zone

The Tri-State Tollway (I-294) borders a 400-acre, high-quality nature preserve called the Indian Boundaries Prairies. The Tollway is partnering with Northeastern Illinois University and the Nature Conservancy to mitigate damage done to the preserve during the widening and reconstruction project along the roadway. The extensive coordination efforts led to the approval of two intergovernmental agreements in 2006. The Tollway will acquire parcels within the nature preserve and transfer the land to NEIU for conservation and long-term management.

Tollway partners with the University of Illinois to protect species at risk

The Tollway has partnered with the University of Illinois to survey roadway corridors for threatened and endangered species. The university provides a staff of botanists, wetland scientists, mammalogists, herpetologists, entomologists and ornithologists to survey specific corridors. This approach allowed the Tollway to proactively design and implement nearly \$1 billion in capital projects.

PRIORITY 4: PROMOTE GREEN POLICIES

MANDATES

CMS reduces emissions by adjusting workplace thermostats and buying green energy

The Department of Central Management Services is reducing state emissions through conservation and innovation. CMS created and implemented a standard temperature policy – for the first time in the history of the state – to reduce energy use, save taxpayer dollars and cut emissions. The agency adopted thermostat standards in state facilities as a matter of fiscal survival, to economize in the face of soaring natural gas prices, which have increased nearly 300 percent since 2001. And those efforts have been rewarded: the state reduced its natural gas usage by nearly 2.2 million therms in a single fiscal year, saving an estimated \$4.8 million.

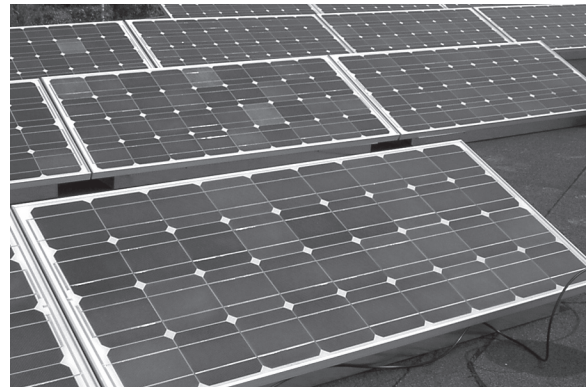
CMS also awarded a multi-year Statewide Electricity Procurement contract with an escalating level of renewable energy supply purchases. The contract supports a “3-4-5” strategy adopted by the state; those numbers reflect the percentage of power that will come from renewable sources each year. This green purchase has a profound environmental impact: the use of 24 million kWh of green power is estimated to yield significant reductions in emissions. With the involvement of several local-level partners, the program launched by CMS has become a role model, facilitating and inspiring stronger commitments within the public sector in Illinois to “go green.”

Illinois students vote to self-impose sustainability fees

The students at the University of Illinois at Urbana-Champaign approved a student referendum to enact a \$5 per semester Sustainable Campus Environment Fee. Beginning in fiscal year 2008, students will pay \$5 to finance initiatives such as green buildings, recycling, energy efficiency, environmentally

responsible purchasing and campus-wide participation in greening efforts. Student voters approved the fee with 6,997 “yes” votes and 1,854 “no” votes.

The students at Northeastern Illinois University also overwhelmingly passed a Green Fee of \$3 per student called the Student Fund for Renewable Energy. A committee will be formed to investigate, promote and oversee renewable energy projects appropriate for the funds.



EDUCATION and OUTREACH

Online solar panel teaches students about renewable energy

The Department of Human Services' Illinois Center for Rehabilitation and Education at Roosevelt promotes and provides education on renewable energy by connecting an active solar panel to the Internet. The solar panel now reports how much energy it is harvesting from the sun, how many pounds of greenhouse gases it is avoiding and how much money it is saving. This teaching tool is educating the Roosevelt students and the surrounding community to the benefits of renewable energy.

ISU hires first-ever sustainability coordinator

Illinois State University created a new sustainability coordinator position, fielding applications from around the world. The new employee will be responsible for the communication of all sustainability efforts across campus: establishing benchmarks, proposing new policies, creating marketing strategies and conducting outreach throughout the community.

Training and reminding state workers about green polices

The Illinois Guardianship and Advocacy Commission has created a green team of motivated staff members who will communicate information about making environmental considerations a part of everyday office decisions. The commission also features environmental news, tips and tricks in its staff newsletter sent via e-mail.

The employees at the Illinois Department of Healthcare and Family Services are reminded about green policies every year when they take part in their annual computer training, and Northern Illinois University developed an Environmental Awareness lesson plan for instructors who teach orientation and first-year field courses.

The facilities and services department at the University of Illinois at Urbana-Champaign created project BLUE: Building a Lasting University Environment in 2003, which advocates sustainability to those who work on campus, and the university created the Task Force and Campus Energy Conservation Committee in 2006 to take a comprehensive look at all aspects of energy production, use and conservation at the University.

SPOTLIGHT

ISU Green Team makes impact

Illinois State University has a group of environmentally savvy students called the Green Team who are making a significant impact on campus. The Green Team has implemented numerous marketing initiatives, each addressing the global concepts of environmental sustainability.

Results include annual collection of recyclables exceeding 1,500 tons, reduced energy consumption at a time when campus-wide square footage has increased, and enhanced relationships with several registered student organizations that communicate with the 20,000 students on campus.

Illinois Department of Employment Security *Energy Efficiency*

IDES applied a special liquid substance to the roof of their building to reduce heat absorption and conserve energy. This improvement will extend the life of the roof and reduce the cost of maintenance.

Central Management Services *Green Facilities*

CMS created a list of suppliers who sell environmentally friendly products suitable for “greening” spaces leased by the State of Illinois. The suppliers are listed in a database on the CMS Web site. CMS also has the state’s first green lease, where the landlord agrees to conform to green operations and maintenance.

Illinois Department of Revenue *Green Office Practices*

IDOR required that all outside printing jobs, such as the state’s tax forms and tax instructions, be printed on recycled paper. In addition, IDOR printed 450 million lottery tickets on recycled paper. IDOR committed to participating in the I-CYCLE and Bike to Work programs, and they increased their E-85 fleet from 54 to 66 vehicles.

Illinois Department of Corrections at Menard Correctional Center *Green Purchasing*

Illinois Correctional Industries developed a peroxide-based, multi-purpose cleaner that is completely biodegradable. ICI also has a line of mops, brooms and brushes made from 90 percent biodegradable materials.

Illinois Department of Transportation & Illinois Medical District Commission *Innovative Projects*

IDOT implemented four strategies to promote biofuel usage: the IDOT web page, blue board signs, large Illinois map displays and pamphlets. A primary goal of the biofuels project was to create signage to help the traveling public find biofuel stations more easily.

IMDC created a sustainable green belt throughout the Medical District to beautify and landscape parts of the Eisenhower. The goal of this project was to use native plants and sustainable building materials to create a low-maintenance green space that the entire community can enjoy for years to come.

Illinois Tollway *Sustainable Construction*

The Tollway took a system-wide approach to environmental planning by partnering with other agencies to proactively identify, minimize, and mitigate any potential impacts to species, nature/forest preserves and wetlands.

Central Management Services *Waste Reduction*

CMS developed the first statewide government electronics recycling program to ensure environmentally sound distribution of state-owned electronics. Electronics that cannot be resold are transferred to an external vendor for recycling of valuable components and proper disposal of waste.

Illinois Department of Human Services *Water Conservation*

IDHS conducts continuing education conferences that include the use of a rain barrel to supply water for the rain garden at the Illinois Center for Rehabilitation and Education at Roosevelt. Other topics in the curriculum cover renewable energy and recycling.

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